Application form LUMI-BE (Belgian share of LUMI)

Regular projects

**Please check the instructions before applying!**

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| **Summary**Type of regular application:☐ In view of a EuroHPC application?Reference number of related LUMI-BE Preparatory application, if any: ……Reference number of related LUMI-BE Regular application, if any: ……Applicant LAST NAME, first name: Institution: Research group / department: E-mail address: Ultra-short description (max. 4 lines): OECD FoS code (see instructions): AI methods (see instructions):Core-hours (CPU.kH) applied for: GPU-hours (GPU.kH) applied for: Target platform (LUMI-C, LUMI-G or both): Amount of scratch disk required (in TB.hours): List of simulation codes and their version numbers (+ license if required): List of the other members to be invited to the project (name and email address): |

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| Q1: | Research project within the framework of which computing time is applied for: title, PI, financing institution or channel (RW, FNRS, FWO, VLAIO, EU, …). Mention the project/grant number. Attach a letter of approval of your own institution in case the project has not gone through a scientific approval process |

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| Q2: | Include a short description of your research project, in layman’s terms wherever possible, with a view to dissemination. Explicitly mention the scientific questions that you are planning to address and the overall scientific goals of the project. (max. 1/2 A4 in Arial 12). |

Please replace with answer.

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| Q3: | Justify the readiness of the codes that will be used e.g., by:* referring to already relevant published results or previous projects about the scaling of the code,
* providing relevant benchmark tests performed on an equivalent architecture (Tier-1 or Tier-0), preferably on LUMI itself.

The justifications should account for the potential jumps in system/problem sizes within the intended computational tasks. Provide tables and graphs. (Replace the dummy values in Table 1 and Plot 1 from the Appendix of the Instructions by real values).If such data are not available, a “preparatory” project should be submitted first. |

Please replace with answer.

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| Q4: | Overview and management of requested resources:* Justify the number of core.hours (CPU.kH) and/or GPU.hours (GPU.kH), and storage volume (TB.H) applied for.
* Describe your planned computational tasks and the sequence in which these tasks will be performed. Will you use a task/workflow manager?
* Provide resource estimates (wall clock time, number of nodes/cores/GPUs, estimate of memory requirement (not the target node memory), storage. It should be based on the results of actual calculations. Please copy and use as much as possible Tables 2 and/or 3 from the Appendix of the Instructions and replace the dummy values by real values.)
* Please present how you will manage your data. This is especially important since the time the storage is being used, will be charged. Describe how the transfer of files to/from LUMI will be managed and automated. Describe if data reduction and/or compression of files will be performed. If available, provide information about IOPS.
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Please replace with answer.

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| Q5: | No question 5 for regular projects as the project duration is fixed. |

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| Q6: | List of computing time allocations received during the past two years, via LUMI-BE or EuroHPC. |

Please replace with answer.

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| Q7: | Can this proposal in its entirety be made public by FWO/FNRS or VSC/CÉCI e.g., as an example or inspiration for other researchers or for showing the impact of LUMI in view of further funding of a successor? |

☐ Yes

☐ No

By submitting this proposal, you accept to contribute to a user story or a LUMI-BE user day in the future.

Don’t hesitate to consult lumi-be-support@enccb.be when you are preparing a LUMI application. Please submit your application to lumi-be-support@enccb.be.